



Office of the City Engineer
609 West Navajo Street
West Lafayette, Indiana 47906
Phone: 765.775.5130
Fax: 765.775.5249

October 1, 2009

RE: Quotes for Fitness Trail Improvements Part II

West Lafayette Parks and Recreation is requesting quotes for installation of the Polytan WS track surface, or approved equal, located at the West Lafayette Jr./Sr High School as a part of the overall City of West Lafayette Fitness Trail. The enclosed Quote Sheet needs to be completed and submitted to the Office of the Clerk-Treasurer, 609 West Navajo Street, West Lafayette, Indiana 47906 in a sealed envelope by 4:30 pm, Friday, October 9, 2009. The envelope should be marked on the outside with the following notation: **Fitness Trail Improvements Part II**. Quotes will be opened publicly and reviewed at the Board of Public Works and Safety meeting in City Hall at 8:30 am, on Monday, October 12, 2009. The Parks and Recreation Department plans to issue a purchase order for the lowest responsive, responsible quote.

West Lafayette Parks and Recreation is exempt from Indiana sales tax.

Please contact Michael Thompson at (765) 775-5130 for any additional information.

Sincerely,

Michael Thompson
Assistant City Engineer

Enclosure

Cc Rieth-Riley, Fairfield Contractors, Milestone Contractors, Polytan, Leslie Coatings

Request for Quote

Fitness Trail Improvements Part II

This request of quote is the official notice of needed materials and professional services by the West Lafayette Board of Public Works and Safety (the "Board").

Board is requesting quotes for the professional installation of the Polytan WS Outdoor Running Track surface. Contractor will be responsible for all work proposed per the enclosed drawings and specifications at the West Lafayette Jr./Sr. High School.

The Contractor shall be responsible for the determination and notification of all affected utilities and for the coordination of all work with the utilities, West Lafayette Jr./Sr. High School and the Board. Any required permits will be provided by the owner. The Contractor shall be responsible for the coordination of all work with the West Lafayette Jr./Sr. High School and the West Lafayette Parks and Recreation Department.

All work must conform to the attached Specifications and the City of West Lafayette Standards and Typical Construction Guidelines and Details (approved by the Board of Public Works and Safety on January 17, 2006).

The Contractor shall carry all necessary insurance and bonding coverage. The Contractor shall also provide certificate of insurance to the Board and the City of West Lafayette per the attached Insurance Requirements. City of West Lafayette Parks and Recreation and West Lafayette Community School Corporation should also be listed as an additional insured.

Any questions concerning this Request for Quote should be directed to: Michael Thompson, Assistant City Engineer, West Lafayette Engineering Department, (765) 775-5130, mthompson@westlafayette.in.gov or Joe Payne, Superintendent, West Lafayette Parks and Recreation, (765) 775-5110, jpayne@westlafayette.in.gov.

Purchase of Material and Professional Services for
Fitness Trail Improvements Part II

QUOTE SHEET

Quotes will be taken under consideration for the issuance of a purchase order to the most responsive and responsible firm which provides a quote most advantageous for the board. Construction will be completed according to the schedule outlined in the project specifications.

The Total Quote amount should include the cost necessary to complete all work described by these documents.

THE TOTAL COST TO PROVIDE ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK; WORK MAY BEGIN UPON APPROVAL OF THE PROPOSED WORK SCHEDULE BY WEST LAFAYETTE ENGINEERING DEPARTMENT, FOLLOWING THE ISSUANCE OF A PURCHASE ORDER, AND ALL WORK IS TO BE COMPLETED BY NOVEMBER 14, 2009.

TOTAL LUMP SUM COST \$ _____

Contractor's Name: _____

Authorized Signature: _____

Date: _____ Phone Number: _____

Specifications

GENERAL REQUIREMENTS: To install the new Polytan SW Outdoor Running Track surface and striping at the West Lafayette Jr./Sr. High School track as a part of the overall City of West Lafayette Fitness Trail.

REQUIRED TIMING: The proposed construction is to be coordinated with the West Lafayette Jr./Sr. High School and the West Lafayette Parks and Recreation. Work may begin upon completion of Part I and coordination with the Part I contractor may be required. Part I is required to be completed by no later than October 30, 2009. Part II shall be completed by no later than November 14, 2009.

Additional Information: Michael Thompson, Assistant City Engineer, West Lafayette Engineering Department, (765) 775-5130, mthompson@westlafayette.in.gov.

POLYTAN WS SYNTHETIC OUTDOOR RUNNING TRACK

PART 1 GENERAL

SUMMARY

- A) Work of this specification includes the installation of a cast in place, durable, permeable, resilient, all-weather track surface (Product IAAF Certified) consisting of a polyurethane bound rubber base mat and structural spray top coat.

ACCEPTABLE INSTALLERS

Installer-Technician must submit a list of 5 completed projects of similar magnitude and complexity over a five year period.

DESCRIPTION OF WORK

- A) Work of this specification consists of furnishing all the required labor, materials, equipment, parts and supplies necessary for this installation of the synthetic running track surface.
- B) Layout and paint all track lines and event markings as required and specified by current IAAF and NCAA rules.
- C) The work hereunder shall be done and conform to:
 - 1. IAAF-- Track and Field Manual
 - 2. NCAA – Track and Field Rules
 - 3. ASBA-- Track Construction Manual and Guidelines

QUALITY ASSURANCE

- A) Bidders of this product are to provide a list of at least 5 installations that are a minimum of 3 years old that contain the same products, and use the same method of installation showing locations and the owners representatives. Tracks are to have been installed under the same name and ownership that is presently bidding. Contractor shall have written maintenance information on this product to be presented to the Owner, upon completion of the surface. This will include repair methods and availability of repair materials including cost. Submit 3 copies of Flooring Care and Maintenance guide.
- B) Track system shall have documented independent test results from an accredited IAAF testing house to the requirements of the IAAF Performance Specifications for Synthetic Surface Athletics Tracks (Outdoor) dated January 1990.
- C) The Contractor's installing foreman must have at least 5 years experience installing the specified type of synthetic track surface system.

WARRANTY

- A) The warranty for the Polytan WS track surface shall be (5) years from the date of acceptance by the Owner. This five-year warranty shall be provided directly to the owner by Polytan USA.
- B) The Polytan warranty excludes the following as applicable:
 - 1.) Where the materials or the installation is damaged by others or use of improper equipment.
 - 2.) The surface has not been properly maintained according to Polytan's maintenance instructions and recommendations.
 - 3.) Damage from improper vehicle traffic, other than those specified by Polytan, use of improper tires, and oil or fuel leaks.
 - 4.) Failure of the asphalt base, concrete, or aggregate subbase.
 - 5.) Defects caused by vandalism, Force Majeure, or natural disasters.
 - 6.) Unless other terms and conditions are previously agreed upon by both parties and stipulated in the contract.
- C) Polytan will repair or replace any proven defective workmanship or material during the warranty period at no cost to the owner. This warranty is in lieu of all other warranties, expressed or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose and shall not include any other damages, either direct or consequential.

RELATED WORK

- A) When surfacing on new asphalt pavement, the asphalt must meet the specifications and standards set forth by the Engineer. The contractor shall be responsible for performing an elevation survey of the asphalt prior to application of the synthetic track surface. The contractor is to perform a flood test of the asphalt top course prior to application of the synthetic track surface.
- B) The governing guidelines of track construction allow for a maximum longitudinal slope of one tenth of one percent (0.10%) in the running direction. The maximum lateral slope shall not exceed one (1) percent (1.0%) for NCAA or IAAF, or two percent (2.0%) for NFHS.
- C) Grade conformance tests may be required to be performed by the Contractor on both the leveling course and the top course of the asphalt pavement at the Engineer's discretion. The entire surface shall provide positive drainage to the inside edge of the track. The maximum allowable planarity deviation within a pass should be 1/8 inch in 10 feet when measured in any direction. Deficient areas in the leveling course should be corrected as approved by the Engineer. After any corrections, the surface shall not allow water to stand greater than 1/16 inch deep, one (1) hour after a flood test has been performed.
- D) The Contractor shall be responsible to have adjacent grass edged and removed from all areas receiving the synthetic surface. It may be necessary to apply a liquid herbicide such as Roundup to any adjacent edges of track and event areas.

PART 2 PRODUCTS

GENERAL

- A) The specified running track surface shall be a mixture of graded rubber granules bound with 100 percent polyurethane binders. The track surface shall be of a permeable design and the mixture is applied to a previous or impervious base by means of a mechanically operated screen.
 - 1. Only a high quality polyurethane binder shall be used. The ratio of rubber to binder shall not be less than 5 parts rubber to 1 part binder as determined by the weight of the products.
 - 2. The depth shall be a minimum of ½ of an inch (12,75mm) or as specified
- B) The synthetic track surface system shall have a smooth finish and may be applied for both indoor and outdoor use.

- C) The structural spray applied polyurethane and rubber blended Coating (top coat) shall be resilient and allow moisture to pass through the surface. It shall have a textured finish for outdoor applications.
- D) The product shall meet the following minimum physical properties:

	<u>Test Results</u>	<u>DIN Standard</u>
Standard Deformation:		
At 0 degrees C	0.81mm	0.6mm - 1.8mm
At 23 degrees C	1.04mm	(temp range 0 degrees -
At 40 degrees C	1.35mm	40 degrees C)
Permeability	0.24 cm/s	min 0.01 cm/s
Spike Resistance:	Class 1 to DIN 18035/part 6.	
Tensile Strength:	0.65N/mm ²	min. 0.5N/mm ²
	68%	min. 40%
Sliding Behavior:	Dry 0.97	Dry < 1.1
	Wet 0.73	Wet < 0.5
Penetration Characteristics:	0.65mm	max. 1.00mm
Burning Characteristics:	Class 1 to DIN 51960.	
Wearing Behavior:	2.0	min. 1.0
Ageing:	QZ no value < 0.75 tensile strength min 0.75	
	QB no value < 0.75 ultimate strain min 0.75	
	QE no value < 0.75 QE min 0.75	
	QE no value > 1.25 QE max 1.25	
	No color value color transfer min 3 degrees < 3 degrees	

- E) All Materials shall have documented independent test results by an accredited IAAF testing house to the requirements of the IAAF Performance Specifications for Synthetic Surface Athletics Tracks (Outdoor) dated January 1990.
- F) Environmental Compatibility – Product has been tested by the independent testing laboratory, Messrs FMFA, Germany, Test Report RAL KB 010205, confirming the requirements relating to the environmental compatibility are fulfilled in all points by the Synthetic Surface.

RUBBER – POLYURETHANE TRACK BASEMAT

- A) The polyurethane track base mat rubber shall be specifically graded rubber granules with a controlled gradation between 1.0mm to 4.00mm.
1. Dust and rubber particulate smaller than a No. 200 sieve size shall not exceed 4 percent of the total rubber.
 2. The rubber shall be black SBR or EPDM

RUBBER – STRUCTURAL SPRAY TOP COAT

- A) The EPDM rubber for the structural spray to coat shall have a gradation of 0.5mm to 1.5mm.
- B) Polytan PU one component 5100 or 5200.
- C) One application clockwise, one application counter-clockwise.

PRIMER

- A) The synthetic track surface primer shall be polyurethane based and compatible with asphalt and synthetic track surfacing materials.
- B) The polyurethane primer may be diluted to ensure proper penetration of the existing surface.
- C) When installing over an asphalt base, the primer application may be reduced or eliminated when extreme heat conditions soften the asphalt.
- D) When installing over a concrete pavement special developed concrete primer, manufactured by the same manufacturer of the other materials, shall be applied.

BINDER

- A) The synthetic track surface binding agent shall be a single component; MDI based, moisture cure polyurethane binder.
 - 1. The polyurethane binder shall be 100 percent solids.
 - 2. The polyurethane binder shall be compatible with SBR and EPDM rubber granules.
- B) All polyurethane binder shall be manufactured by the installation company and to be delivered in new unopened containers, clearly labeled by the manufacturer.

PART 3 EXECUTION

GENERAL

- A) The entire surface shall be swept, power blown, or high pressure washed to remove all dirt, oil, grease, or any other foreign matter. The surface shall be free from any loose material.
- B) All work shall be performed by manufacturer's technicians and comply with the manufacturer's guidelines for the complete placement and installation of the base layer, the sealing and surface layers.
- C) Prior to installation of the polyurethane track base mat, the entire asphalt base shall be checked for planarity and surface tolerance. Any areas that vary more than 1/8 inch when measured with a 10-foot straightedge in any

direction shall be patched with a compound compatible with the base material and approved by the synthetic track surface manufacturer and the Engineer.

LIMITATIONS

- A) Installation of the track surface material shall take place only when conditions are dry and the temperature is 50 degrees F and rising. If, in the installer's opinion, weather or climate conditions are harmful for proper track surface installation, work will be delayed until conditions are agreeable.
- B) Installation of the track surface material cannot begin if any nearby construction is producing excessive dust or foreign particles that would be harmful to the synthetic track materials
- C) During surface installation and striping all sprinkler systems shall be shut off, or controlled so that no water falls on the track or event surfaces.
- D) The Contractor shall be responsible to have the entire track area, and other pertinent areas such as football field, concessions, etc., closed and secured of all activities 24 hours per day through the curing and completion of the synthetic track surface.

INSTALLATION – POLYURETHANE TRACK BASEMAT

- A) The entire area to be surfaced shall receive an application of polyurethane primer applied uniformly at a rate between 0.20-0.30 lb. per sq. yd. A minimum cure time of 30 minutes is required before application of the base mat materials.
- B) The mixing ratio of rubber to binder shall not be less than 5 parts rubber to 1 part binder as determined by the weight of the products. The materials shall be prepared in a mechanical mixer until a homogenous mix is obtained.
- C) The mixed materials making up the synthetic track surface shall be applied by a mechanically operated finishing machine, which shall have an electrically heated screed. The surface shall be in situ installed in one single layer to the specified depth.
- D) The cured edge of each joint shall be primed with the synthetic track surface binding agent prior to the laying of the adjacent base mat. All joint work shall be troweled flush with the adjacent mat.
- E) Trowel work: All seams shall be troweled smooth within the pot life of the material. All edges shall be straight and rounded by turning the trowel. All cold dry seams shall be cut straight at an inward angle and primed prior to commencing with subsequent work.

INSTALLATION – STRUCTURAL SPRAY TOPCOAT

- A) The polyurethane track base mat shall be cleaned and prepared prior to the installation of the structural spray top coat in accordance with the manufacturer's specifications and instructions.
- B) According to the manufacturer's specifications, the specified quantity of colored EPDM granules shall be mixed thoroughly with the specified quantity of the one component polyurethane of the structural spray material.
- C) The mixed structural spray material shall be placed into a spray machine and the material is applied to the polyurethane track base mat. A second coat of material over the first is applied in the opposite direction. The total rate of both coats of spray shall range from 3.5 to 4.0 lbs. per square yard.

STRIPING

- A) Experienced personnel specializing in all-weather running track striping shall accomplish all striping.
- B) Provide lane lines, starting lines, and markings required, and conform to the standards for track construction as prescribed by the applicable governing body.
- C) Calculations shall be made to the nearest 0.0001'. These shall be rounded to the nearest 0.01' for marking.
- D) A transit or theodolite capable of reading direct to 20 seconds shall set the angles.
- E) Measurements shall be made with a steel tape in engineering scale that will read directly to 0.01'.
- F) All measurements and calculations shall be made by an IAAF, NCAA or N.F.S.H.S.A. certified surveyor for track and field event layout.
- G) PU-Line Paints, a pigmented two-component polyurethane paint. Color as chosen from manufacturer's standard colors. See architectural drawings for lane marking details.

DELIVERY, STORAGE, AND CLEANING

- A) Materials should be delivered in manufacturer's container to maintain clean and dry conditions. See Manufacturer's guidelines for temperature requirements for the locale of installation.
- B) The owner shall provide a secure, clean, dry location for storage of materials at temperatures above 50 degrees F. Under no circumstances should materials be stored outside unless fully protected from moisture with 10 mil polyethylene barrier and tarpaulin. All materials stored outside shall be inspected by dealer for moisture contamination before application.
- C) Upon completion of all work, installer shall remove all containers, surplus materials and installation debris. Leave work area in clean orderly condition.